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10/742,934

12/23/2003

Jae-Hee Moon

1793.1128

7379

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7590

12/13/2006

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EXAMINER

HALEY, JOSEPH R

ART UNIT

PAPER NUMBER

2627

DATE MAILED: 12/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/742,934

Applicant(s)

MOON ET AL.

Examiner

Joseph Haley

Art Unit

2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 23 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Information Disclosure Statement***

The Chinese Office Action of July 28, 2006 and the Korean Notice to Submit Response of January 28, 2005 have been considered; however, are lined through so as to not be printed on the front of the patent.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 4, 5, 6, 8, 9, 10 and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamamoto (US 7020058).

In regard to claim 1, 5 and 9, Yamamoto teaches an apparatus for preventing a writing error from occurring on an optical disc in an optical disc drive having a wobble signal generator, the apparatus comprising: an interpolation ATIP sync signal detector which receives a wobble signal from the wobble signal generator of the optical disc drive and detects an interpolation ATIP sync signal from the wobble signal; a number determiner which determines a number of interpolation ATIP sync signals and generates a writing speed transformation control signal based on the number of interpolation ATIP sync signals determined; and a writing speed adjuster which

receives the writing speed transformation control signal from the number determiner and adjusts a writing speed of the optical disc drive (see column 3 lines 34-43).

In regard to claims 2, 6 and 10, Yamamoto teaches wherein the number determiner determines whether a predetermined number of interpolation ATIP sync signals are consecutively detected within a predetermined period of time (column 3 lines 41-43. Yamamoto only changes speed when the number of ATIP syncs changes).

In regard to claims 4, 8 and 12 Yamamoto teaches wherein the writing speed adjuster adjusts the writing speed by monitoring a plurality of control signals in real time (column 3 lines 37-40. Yamamoto teaches monitoring the wobble signal and then determining the ATIP signal from that. The ATIP signal and wobble signal are two different signals).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 7 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamamoto in view of Harada (US 6856583).

In regard to claims 3, 7 and 11, Yamamoto teaches all of the elements of these claims except the writing speed adjuster applies a writing stop control signal to an optical disc drive controller so that the optical disc drive enters a pause mode, adjusts

the writing speed to a speed of the optical disc, and applies a writing speed adjustment control signal to the optical disc drive to adjust the writing speed.

Harada teaches the writing speed adjuster applies a writing stop control signal to an optical disc drive controller so that the optical disc drive enters a pause mode, adjusts the writing speed to a speed of the optical disc, and applies a writing speed adjustment control signal to the optical disc drive to adjust the writing speed (column 7 lines 53-58).

The two are analogous art because they both deal with the same field of invention of recording speed of an optical disc.

At the time of invention it would have been obvious to one of ordinary skill in the art to provide the apparatus of Yamamoto with the pause mode of Harada. The rationale is as follows: At the time of invention it would have been obvious to provide the apparatus of Yamamoto with the pause mode of Harada because it would ensure data was written at the correct speed.

### ***Conclusion***

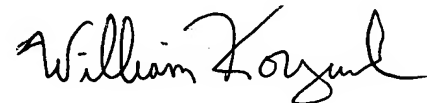
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Haley whose telephone number is 571-272-0574. The examiner can normally be reached on M-F 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on 571-272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

jrh



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